Allied Vision

Manta
G-505

- Versatile 5 Megapixel camera
- 15 fps
- PoE option
- Video-iris lens control

Description

GigE camera with Sony ICX625 sensor

Manta G-505B/G-505C includes the Super HAD 2/3'' Sony ICX625 sensor. This sensor is suitable for a wide variety of high-resolution applications such as inspection and microscopy solutions.
Options

- Power over Ethernet (PoE)
- Various IR cut/pass filters and lens mounts
- White medical housing

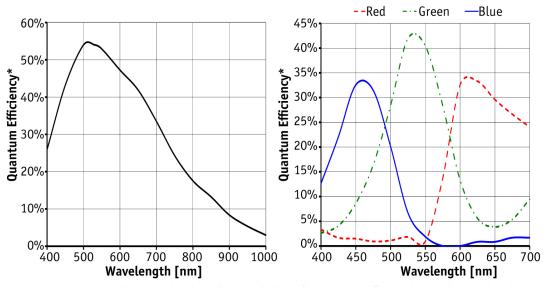See the#Modular Concept#for lens mount, housing variants, optical filters, case design, and other modular options.

Specifications

Manta	G-505
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE) optional
Resolution	2452 (H) × 2056 (V)
Sensor	Sony ICX625
Sensor type	CCD Progressive
Cell size	3.45 µm x 3.45 µm
Lens mount	C-Mount
Max frame rate at full resolution	15 fps
ADC	14 bit
Image buffer (RAM)	128 Mbyte
Non-volatile memory (Flash)	1024 KB
Output	

Manta	G-505
Bit depth	8-12 bit
Mono modes	Mono8, Mono12Packed, Mono12
Color modes YUV	YUV411Packed, YUV422Packed, YUV444Packed
Color modes RGB	RGB8Packed, BGR8Packed
Raw modes	BayerRG8, BayerRG12, BayerRG12Packed
General purpose inputs/outputs (GPIOs)	
Opto-isolated I/Os	2 inputs, 2 outputs
RS-232	1
Operating conditions/dimensions	
Operating temperature	+5 °C to +45 °C ambient (without condensation)
Power requirements (DC)	8 to 30 VDC; PoE
Power consumption (@12 V)	3.9 W @ 12 VDC; 4.5 W PoE
Mass	190 g; 200 g (PoE)
Body dimensions (L × W × H in mm)	86.4 × 44 × 29 (including connectors)
Regulations	CE, RoHS, REACH, WEEE, FCC, ICES

*QE measured without protection glass or filters. With glass or filters, quantum efficiency decreases by approximately 10%.
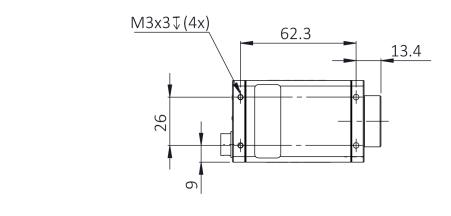
Features

Manta G-505B/G-505C features include:

- Precision Time Protocol (IEEE 1588)
- Camera temperature monitoring
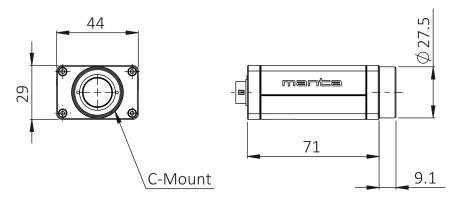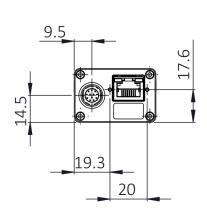- Video-type auto iris

- Region of interest (ROI), separate ROI for auto features
- Binning
- Decimation
- Auto gain (manual gain control: 0 to 31 dB)
- Auto exposure (49 #s to 38 s)
- Auto white balance
- Look-up tables (LUTs)
- Gamma
- Hue, saturation, color correction
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Sync out modes: Trigger#ready, input, exposing, readout, imaging, strobe, GPO
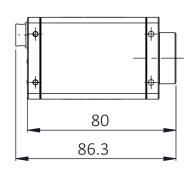- Event channel
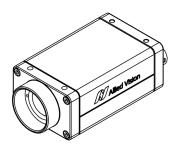- Chunk data
- Storable user sets

Technical drawing

M3x3 (4x)

62.3

13.4

26

9

44

29

C-Mount

Ø 27.5

71

9.1

9.5

17.6

14.5

19.3

20

manta

Allied Vision

80

86.3

Applications

Manta G-505B/G-505C is ideal for a wide range of applications including:

Allied Vision

- Machine vision
- Inspection and quality control
- Microscopy
- Intelligent traffic solutions (ITS)
- Automation
- Logistics